IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims * and ADD new claims * in accordance with the following:

1. (Currently Amended) A pulse radar apparatus which detects a target by transmitting a pulse signal, comprising:

a ~~control~~ pulse generation unit generating a basic signal to generate a ~~control~~ transmitting pulse signal; ~~by~~

a delay unit delaying ~~a~~ the basic signal ~~in generating~~ to generate a ~~transmission~~ control pulse signal; and

a gate unit performing a gate operation ~~on~~ in which a received signal ~~using~~ is passed when the control pulse signal is in a first logical state and the received signal is not passed when the control pulse is in a second logical state.

2. (Original) The apparatus according to claim 1, further comprising:

a detection unit detecting an output of said gate unit; and

a distance computation unit computing a distance to a target as associated with a delay amount which shows a maximum value of a component corresponding to amplitude of a received signal using an output of said detection unit when said control pulse generation unit changes the delay amount.

3. (Original) The apparatus according to claim 1, further comprising:

a detection unit detecting an output of said gate unit; and

a distance computation unit computing a distance to a target as associated with a phase difference between the basic signal and the received signal using an output of said detection unit when said control pulse generation unit changes the delay amount.

4. (Original) The apparatus according to claim 1, further comprising:

a modulation signal generation unit generating a pulse from the basic signal in generating a transmission pulse, and generating a modulation signal for generation of a transmission pulse with a band limit of the spectrum range of the pulse.

5. (Original) A pulse radar apparatus which detects a target by transmitting a pulse signal, comprising:

a control pulse generation unit generating a control pulse signal by delaying a signal generated using a first signal which is a basic signal in generating a transmission pulse, a second signal for phase modulation of a frequency lower than the first signal, and a pseudo-random signal for amplitude modulation generated at an intermediate frequency between the first and second signals; and

a gate unit functioning as a gate for a received signal using the control pulse signal.

6. (Original) The apparatus according to claim 5, wherein

said pseudo-random signal is an amplitude modulation signal for the first signal.

7. (Original) The apparatus according to claim 5, wherein

said pseudo-random signal is a phase modulation signal for the first signal, and said generated signal is a signal in which a pulse exists in a section in which the pseudo-random signal is low.

8. (Original) The apparatus according to claim 5, further comprising:

a detection unit detecting an output of said gate unit; and

a distance computation unit performing counterspread using the pseudo-random signal on an output of said detection unit, extracting power of a frequency area, and computing a distance to a target as associated with a delay amount indicating a maximum value of the power, when said control pulse generation unit changes the delay amount.

9. (Original) The apparatus according to claim 5, further comprising:

a detection unit detecting an output of said gate unit; and

a distance computation unit performing counterspread using the pseudo-random signal on an output of said detection unit, extracting power of a frequency area, and computing a distance to a target as associated with a phase difference between the first basic signal and a received signal, when said control pulse generation unit changes the delay amount.

10. (Original) The apparatus according to claim 5, further comprising:

a modulation signal generation unit generating a pulse from a signal generated using the first signal, the second signal, and the pseudo-random signal; and generating a modulation signal for generation of a transmission pulse with a band limit of a spectrum range of the pulse.

11. (Currently Amended) A pulse radar apparatus which detects a target by transmitting a pulse signal, comprising:

~~control~~ pulse generation means for generating a basic signal to generate a ~~control~~ transmitting pulse signal; ~~by~~

a delay unit delaying ~~a~~ the basic signal ~~in generating~~ to generate a ~~transmission~~ control pulse signal; and

gate means for performing a gate operation ~~on~~ in which a received signal ~~using~~ is passed when the control pulse signal is in a first logical state and the received signal is not passed when the control pulse is in a second logical state.

12. (Original) A pulse radar apparatus which detects a target by transmitting a pulse signal, comprising:

control pulse generation means for generating a control pulse signal by delaying a signal generated using a first signal which is a basic signal in generating a transmission pulse, a second signal for phase modulation of a frequency lower than the first signal, and a pseudo-random signal for amplitude modulation generated at an intermediate frequency between the first and second signals; and

gate means for functioning as a gate for a received signal using the control pulse signal.